

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE NEW TRAFFIC CONTROL SIGNAL FOR THIS PHASE OF THE MAINTENANCE OF TRAFFIC AT MD 450 (ANNAPOLIS ROAD) AND AND FORBES BLVD. IN PRINCE GEORGES COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION IS TO BE MODIFIED TO OPERATE IN A NEMA FOUR PHASE, FULLY-TRAFFIC-ACTUATED MODE. THE THROUGH MOVEMENTS ON MD 450 WILL OPERATE CONCURRENTLY. THE THROUGH MOVEMENTS ON FORBES BLVD. WILL OPERATE CONCURRENTLY.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND CABINET ARE TO BE UTILIZED.

SPECIAL NOTE

72 HOURS PRIOR TO ANY WORK ON THE TRAFFIC SIGNALS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 TRAFFIC SECTION REPRESENTATIVE, MR. RICHARD BUETTNER (301-513-7316) AND THE SIGNAL OPERATIONS SUPERVISOR, MR. EDWARD RODENHIZER (410-787-7652).

ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UNDERGROUND AND OVERHEAD UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

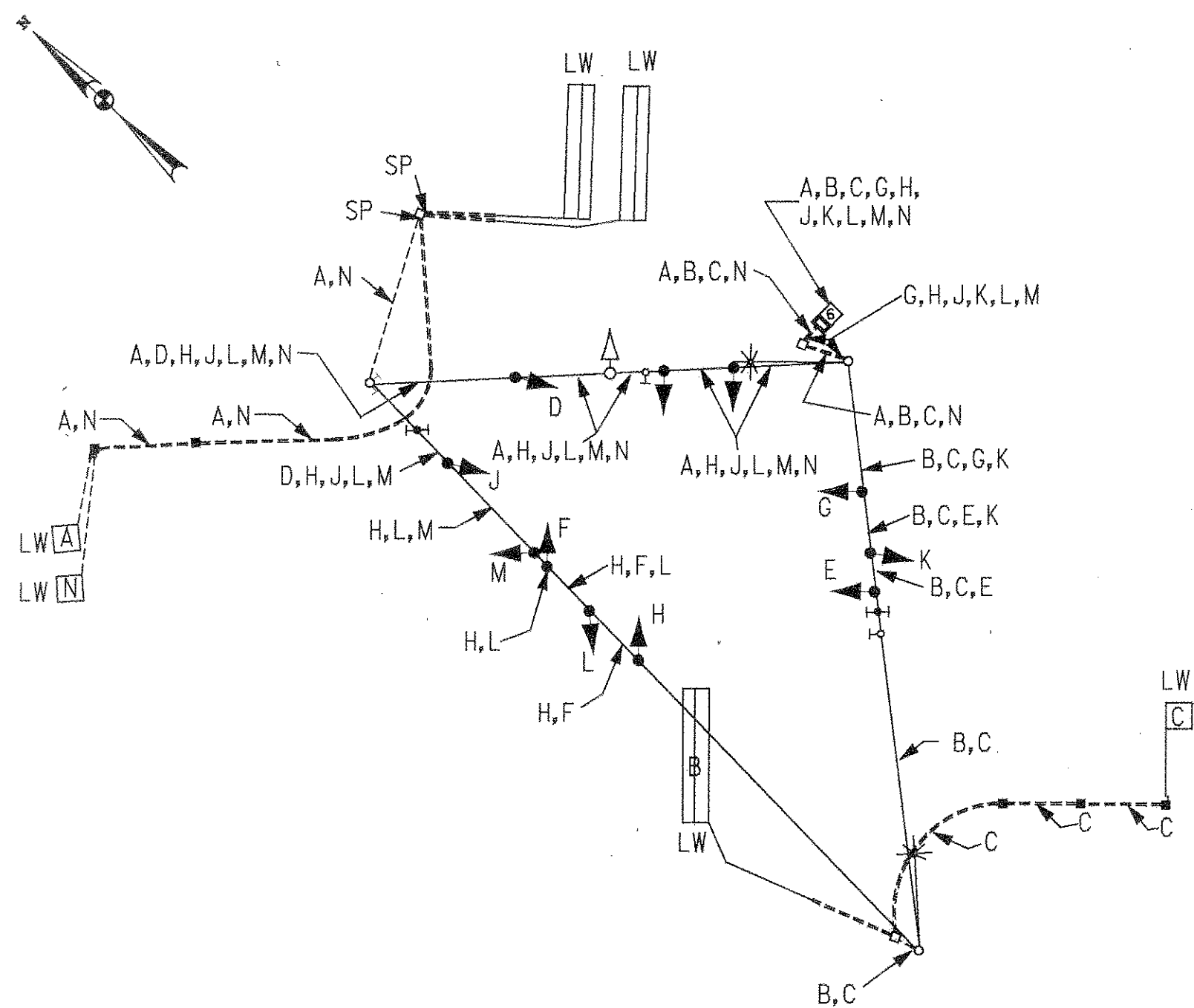
CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
960015	814	7 EA.	12 IN. 1 WAY 3 SECTION (R,Y,G) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
114245	104	87 L.F.	24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
805011	805	30 L.F.	FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805125	805	705 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT - TRENCHED
805160	805	32 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
811001	811	5 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
860015	814	7 EA.	INSTALL 12 IN. 1 WAY 3 SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860265	814	4 EA.	RELOCATE EXISTING SIGNAL HEAD
861104	810	2050 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861107	810	138 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	810	1157 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
862101	810	1670 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
862102	815	530 EA.	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
800000	813	2 EA.	RELOCATE EXISTING OVERHEAD SIGN
800000	XXX	LUMP SUM	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

WIRING DIAGRAM



A
B
C
N } 2-CONDUCTOR CABLE
(ALUMINUM SHIELDED)

D
E
F } 5-CONDUCTOR CABLE
(NO. 14 A.W.G.)

G
H
J
K
L
M } 7-CONDUCTOR CABLE
(NO. 14 A.W.G.)

SP — SPLICE EXISTING ALUMINUM
SHIELDED CABLE TO NEW
LOOP WIRE

LW — LOOP WIRE (NO. 14 A.W.G.) IN
FLEXIBLE TUBING

PHASE DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R	←→
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	←→
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	G	↑↓
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	↑↓
FLASHING OPERATION	F Y	F Y	F Y	F Y	F Y	F Y	F R	F R	F R	F R	F R	F R	←→ ↑↓

TEMPORARY SIGNAL
PHASE II

DWG. NO.
TS-2B



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 (ANNAPOLIS ROAD) AT FORBES BLVD.

LOG MILE NO. 16045006.59 DATE 5/20/96

DRAWN BY: S. BLOSS

CHECK BY: T. HANNAN

SCALE: NONE

F.A.P. NO. N/A

S.H.A. NO. N/A

COUNTY: PRINCE GEORGES

PLAN

SHEET NO.

TS-3600A-X2-GI

348

465

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

REVISION	APPROVAL
	ASST. DIVISION CHIEF, TRAFFIC
	TRAFFIC ENGINEERING DESIGN DIVISION
	DATE: AUGUST 1996 - WTB MODIFY EXISTING SIGNAL SHA NO. PG9005171
JDM	

REVISION	APPROVAL
	ASST. DIVISION CHIEF, TRAFFIC
	TRAFFIC ENGINEERING DESIGN DIVISION
	DATE: AUGUST 1996 - WTB MODIFY EXISTING SIGNAL SHA NO. PG9005171
JDM	

DIRECTOR, OFFICE OF TRAFFIC & SAFETY